

CONTRACT TITLE:
**On Supply and Installation of Street Lighting Systems in
Cantemir, Republic of Moldova. Phase II.**

Identification number: GLM 04/18/Cantemir

CONTENT:

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8. Technical Specifications by Streets/Galicus SRL
9. Work Time Schedule/Galicus SRL

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**Minutes of the Contract Negotiations
Contract GLM04/18/Cantemir**

Date: 17 July 2018

Place: Chisinau, AEER Office, Puskin Street 5A, of. 13

List of participants:

Irina Plis, GLM Project Manager represented by AEER

Tatiana Talmatchi, GLM Project Financial Manager represented by AEER

Alexandr Matrohin, GLM Project Technical Expert represented by AEER

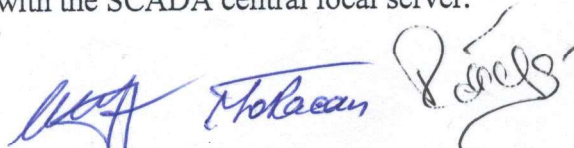
Roman Ciubaciuc, Mayor of Cantemir

Iurie Casap, Director, Galicus SRL

In her welcoming speech, Irina Plis congratulated Galicus SA representatives on being considered as the winning bidder following the results of the tender GLM 04/18. After the welcoming words, the parties went on to discuss the contract on Supply and Installation of Street Lighting Systems in Cantemir, Phase II following the **Tender GLM04/18**.

As a result of the discussions, the parties agreed on the following:

1. The present minutes are an integral part of the contract:
2. The Contractor shall supply all the necessary equipment and materials, and shall perform all the works in full and strict accordance with the requirements of the Contract, technical specifications and best engineering practices for the installation of the new street lighting systems in the city of Cantemir, and as necessary for their operation according to the above-mentioned requirements, particularly the following:
 - 2.1 The installed luminaries shall fulfill the requirements of the standards acting on the territory of RM and shall ensure at least the minimum level prescribed by the standards during their life time (at least 50000 h), so that the luminance level on the surfaces (cd/m^2) degradation will not decrease the quality and quantity of street lighting below levels required by the norms acting on the territory of RM during the whole life cycle (at least 50000 h).
 - 2.2 The dimming function shall correspond to the technical requirements: LED drivers shall support the dimming function from 10% to 100% load.
 - 2.3 The control, operation and monitoring system shall correspond to the technical requirements of the Technical Specifications and particularly:
 - a) All data regarding power consumption ((see p.3 of the Technical Specifications, Annex II+III of the Tender Dossier: Scanning frequency data from the electronic electricity meter) shall be collected by local certified electronic electricity meters for commercial metering and transferred to centralized monitoring point located in the office indicated by the Beneficiary. The systems has to scan the data at least 1 scan per 10 seconds with possibility of increasing the time of scanning up to 10 min.
 - b) In the local cabinet shall be backup power (required 48 h of operation without external power) to ensure at least the possibility to do monitoring of the voltage presence of power supply and door open/close state in case of no power.
 - c) Availability of an autonomous calendar that operates without external power supply with possible synchronization with the SCADA central local server.



- d) Presence of HMI (manual local setting): Contractor shall supply one portable electronic device with necessary application to ensure access and operation of local data concentrator and its settings.
- e) Remote monitoring using web browser;
- f) Possibility to review the database in both a table and graphical form with the possibility to filter the information. Min number of parameters - 50 pcs;

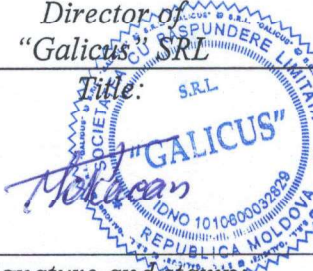

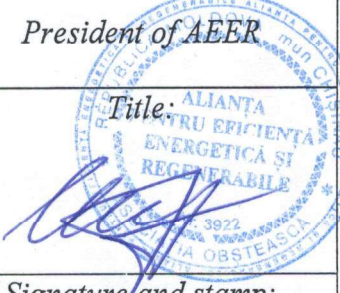
2.4 Features of the operational and control systems:

- a) Real-time monitoring of Power Supply and Current status;
- b) Store and forward when communication is down (no IP connection);
- c) Historical data for equipment performance evaluation (e.g. types of failure, frequency of failure and downtime);
- d) Visual alarm verification;
- e) Data for management, planning and evaluation;
- f) Shall provide for future expansion to allow remote access to the system via wireless LAN or other available types of wireless communication compatible with another systems;
- g) Shall be easily expandable in the future to cover more remote stations.

- 3. The Contractor confirms that the price of its offer includes all necessary works, materials, equipment, sim cards etc., to perform all the works under the contract fully and in accordance with the requirements and engineering practices;
- 4. The Contracting Authority will appoint the person responsible for technical supervision within 5 calendar days after signing this contract;
- 5. The effective date of this Contract is the date of the signing this contract. The deadline for implementation of works in Cantemir is **25 September 2018**.
- 6. Within 10 days after the signing of the contract, the Contractor shall provide a detailed weekly plan for the performance of works under this contract;
- 7. Payments for work under the contract (interim payment) will be made after the completion of all works according to the Article 5 of the Contract;
- 8. The Contracting Authority reserves the right to test supplied luminaries for compliance of their characteristics with the ones declared and required in the Contract in an accredited laboratory; the luminaries for testing will be selected by the Contracting Authority. In case of positive results (if the compliance of the luminaries is confirmed by the tests) - the costs associated with testing will be borne by the Contracting Authority. In the event that the test results do not correspond to the declared parameters, the payment for the luminaries will not be made until they are completely replaced with ones that correspond to the requirements of the contract. In this case, all costs for laboratory tests and analysis shall be covered by the Contractor; (Article 30 of GC - Verification operations).
- 9. The advance payment will be made by the Customer in accordance with paragraph 46.3. General Conditions of the Contract.
- 10. The total cost of the Contract for Cantemir is 116 890,34 euro.
- 11. Payment for work under the contract (interim payment) will be carried out in accordance with paragraph 49 of the Special Conditions of the Contract. The supplies shall be at the risk of the Contractor until their final acceptance (Art.29 of GC).

12. The Contractor is responsible for all equipment, materials, etc. dismantled and installed under the contract, until the commissioning is accepted.
13. The Contractor gives a warrantee of 5 years for all equipment supplied (at least for the following: luminaries, cables, brackets, elements of the control operation and monitoring system).
14. The Contractor gives a warrantee of 5 years for all works supplied.
15. The Contractor provides training to personnel on the use, operation, management and monitoring of the system. At the end of the training, the trainees will have to pass a test conducted by the Contractor.
16. The Contractor shall supply 1 computer for municipality including parameters suitable for normal monitoring, control and operation of the lighting systems, accessories (mouse, keyboard, flat monitor (IPS or equivalent matrix) with min 24 inches diagonal size, UPS).
17. The contractor shall transport all dismantled equipment to the place indicated by the Contracted Authority and pass to the Contracting Authority based on the Commissioning Act.

The minutes are signed by:

For the Contractor	For the Contracting Authority	Contracting Authority's representative
Iurie Casap	Roman CIUBACIUC	Irina PLIS
<i>Name:</i>	<i>Name:</i>	<i>Name:</i>
<i>Director of "Galicus" SRL</i>	<i>Mayor of Cantemir</i>	<i>President of AEEER</i>
<i>Title: S.R.L.</i>	<i>Title:</i>	<i>Title: ALIANȚA PENTRU EFICIENȚĂ ENERGETICĂ ȘI REGENERABILĂ</i>
		
<i>Signature and stamp:</i>	<i>Signature and stamp:</i>	<i>Signature and stamp:</i>
<i>17 July, 2018</i>	<i>17 July, 2018</i>	<i>17 July, 2018</i>
<i>Date:</i>	<i>Date:</i>	<i>Date:</i>

R. Ciubaciuc
Iurie Casap

VOLUME 2

SECTION 1
CONTRACT FORM

WORKS CONTRACT FOR EUROPEAN UNION EXTERNAL ACTIONS

NO GLM 04/18

FINANCED FROM THE EU GRANT PROJECT:

Green Light Moldova – Modernization and Saving Energy at Street Lighting

Between

NGO “Alliance for Energy Efficiency and Renewables” (further “AEER”), Republic of Moldova as the Lead Partner of the project.

5A Puskin Street, Office 13
Chisinau, MD-2012
Republic of Moldova

(‘The Contracting Authority’),

of the one part,

and

Cantemir City Hall (further Cantemir), Republic of Moldova as the Partner to GLM Project
str. Trandafirilor nr. 2
Cantemir, MD-7300
Republic of Moldova

(“the Contracting Authority”)

of the one part,

and

Galicus SRL
Str. Miron Costin 1/3, ap.19
Chisinau, MD-2052
Republic of Moldova
Cod Fiscal: 1010600032829
VAT number: 0607601

(‘the Contractor’)

have agreed as follows:

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Page 1 of 4
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CONTRACT TITLE:

**On Supply and Installation of Street Lighting Systems in
Cantemir, Republic of Moldova. Phase II.**

Identification number: GLM 04/18/Cantemir

Whereas the Contracting Authority would like the Contractor to carry out at least the following services required for the normal operation of the street lighting system:

- Supply and replace existing luminaries (mainly sodium-vapor/mercury-vapor bulbs, etc.) with new LED luminaries according to the requirements specified below: Cantemir: 300 lighting points.
- Supply, install and put into operation required control & management and monitoring systems;
- Replace brackets, cables etc. necessary for the normal operation of the street lighting system.
- Execute all necessary demolition/dismantling and installation works under the contract conditions.
- Supply, install electronic electricity meters for commercial metering certified in Republic of Moldova and approved by the electricity supplier for billing purposes, controllers with communication equipment GSM/GPRS/RF/BT or other equivalent communicator and other necessary equipment to control lighting intensity of dimming of LED fixtures;
- Supply, install, test and put into operation of all equipment required by the present technical specifications;
- Ensure the availability of all equipment, machines, tools etc for works required by the present contract.
- Supply, handle, deposit and store necessary materials and equipment;
- Supply and install 1 computer with parameters suitable for normal monitoring, control and operation of the lighting systems. The computer shall be equipped with all required accessories including the following: mouse, keyboard, flat monitor (IPS or equivalent matrix) with min 24 inches diagonal size, UPS.
- Install necessary software for visualization of all necessary measures and transmitted parameters to the centralized monitoring point whereas the licensed installation CD (or another) shall be transmitted to the Beneficiary. The operational, control, monitoring and visualization systems shall be fully autonomous, installed on the Beneficiary's computer/server supplied in the framework of this contract and no additional payment shall be paid by the Beneficiary during the whole lifecycle of the installed equipment(luminaires, operational, control, monitoring and visualization systems, etc)
- Organize local hands-on training for lighting operation personnel.
- Other contract associated works.

and has accepted all the by the Contractor for the execution and completion of such works and the remedying of any defects therein.

It is hereby agreed as follows:

- (1) In this Contract, words and expressions shall have the meanings assigned to them in the contractual conditions set out below.
- (2) The following documents shall be deemed to form and be read and construed as part of this Contract, in the following order of precedence:
 - (a) the Contract,
 - (b) the Special Conditions,
 - (c) the General Conditions,
 - (d) the Technical and /or Performance Specifications,
 - (e) the Design Documentation (drawings),
 - (f) the breakdown of lump-sum price,

D. Access

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- (g) the tender,
(h) any other documents forming part of the Contract.

The various documents making up the contract shall be deemed to be mutually explanatory; in cases of ambiguity or divergence, they shall prevail in the order in which they appear above. Addenda shall have the order of precedence of the document they are amending.

- (3) In consideration of the payments to be made by the Contracting Authority to the Contractor as hereinafter mentioned, the Contractor undertakes to execute and complete the works and remedy defects therein in full compliance with the provisions of the Contract.

- (4) The Contracting Authority hereby agrees to pay the Contractor in consideration of the execution and completion of the works and remedying of defects therein the amount of:

- **Contract price (excluding VAT/other taxes): 116 890, 34 EUR**
- **Contract price: one hundred sixteen thousand, eight hundred ninety EURO and thirty-four Euro cents**

or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract. VAT will be paid in compliance with the binding regulations, national law and international agreements concerning the execution of the project. VAT and other taxes shall not be paid on the funds originating from EU funds.

- (5) The Parties agree to the set of rights and obligations described in the attached contractual documents, with the following main characteristics, further detailed in the attachments:

		Contract-article:	
1	Price	Lump sum contract	49
		Prices can not be revised	48
2	Duration	July 17 – September 27, 2018	34
		Provisional acceptance, after completion of works	60
		Defects liability period of 365 days, after provisional acceptance	61
		Final acceptance, after expiry of defects liability period	62
3	Delay	0.1% of the contract price for every day of delay	36
4	Supervisor		5
5	Sub-contracting	Allowed up to 50% of the contract price, with the main Contractor maintaining full responsibility	7
6	Bank guarantees	Performance guarantee 10% of the total contract price (see art. 11 of the General Conditions of the Contract).	15, 46, 47
7	Insurances	For damage to 3 rd parties, unlimited for bodily injury	16
		Contractor all risk insurance	16
		Insurance against accidents at work	16
		Insurance for soundness of works	16
8	Payments	Cantemir: lump sum advance for 10% of the original contract price, after conclusion of the contract (upon request). 80% payment of the contract price, after completion of all works and Operational Acceptance issued and approvals received from the accredited laboratories. 10% final payment of the contract price after remedying of any defects therein, September 27, 2018.	46

[(6) Other specific conditions applying to the Contract

After luminaries are installed and tested, some of them will be randomly selected to be submitted to laboratories accredited by EU as to verify their correspondence with the technical parameters required by the present technical specifications. The payment for the luminaries will be done upon the receipt of the approval from the accredited laboratory before the contract is expired. The Contracting Authority shall be responsible for the costs of testing procedures.

In witness whereof the parties hereto have signed the Contract. This Contract shall take effect on the date on which it is signed by the last party, namely the Contractor.

Done in English in three originals: one original for the Contracting Authority's Representative, one original for the Contracting Authority, and one original for the Contractor.

For the Contractor	For the Contracting Authority	Contracting Authority's representative
Iurie Casap	Roman Ciubaciuc	Irina PLIS
Name:	Name:	Name:
<i>Director of "Galicus" SRL</i>	<i>Mayor of Cantemir</i>	<i>President of AEER</i>
Title:	Title:	Title:
		
Signature and stamp:	Signature and stamp:	Signature and stamp:
<i>17.07.2018</i>	<i>17.04.2018.</i>	
Date:	Date:	Date:

R. Ciubaciuc
Iurie Casap

VOLUME 2

SECTION 3 SPECIAL CONDITIONS

CONTENTS

These conditions amplify and supplement the General Conditions governing the Contract. Unless the Special Conditions provide otherwise, the General Conditions remain fully applicable. The numbering of the Articles of the Special Conditions is not consecutive but follows the numbering of the General Conditions. Other Special Conditions should be indicated afterwards.

Article 2 Language of the Contract

- 2.1 The language used shall be English.

Article 4 Communication

- 4.1 Mrs. Irina Plis
NGO "Alliance for Energy Efficiency and Renewables" (further "AEER"), Republic of Moldova as the Lead Partner of the project.
05A Puskin Street, Office 13
Chisinau, MD-2012
Republic of Moldova
Phone: +373 22 200090
E-mail: aeer.moldova@gmail.com

Article 5 Supervisor and Supervisor's representative

- 5.2 For Cantemir town – tbd

Article 9 Access to the site

- 9.1 The Contractor is reminded that there is a Head of Delegation of the European Commission in the state of the Contracting Authority. The Contractor is obliged to give the Head of Delegation free access to its sites, factories, workshops, etc., and generally assist the Head of Delegation, like the project Supervisor, in the performance of his duties. The same provisions also apply to the appointed representatives of the Head of Delegation.

Article 12 General Obligations

- 12.1 A project information passport shall be installed at the project site for visibility reasons. The details for the text and sizes shall be coordinated with the Contracting Authority.

Article 16 Liabilities and Insurance

- 16.1 a) By way of derogation from Article 16.1, a) paragraph 2, of the general conditions, compensation for damage to the works resulting from the Contractor's liability in respect of the Contracting Authority is capped at an amount equal to the contract value.
- 16.1 b) By way of derogation from Article 16.1, b), paragraph 2, of the general conditions, compensation for damage resulting from the Contractor's liability in respect of the Contracting Authority is capped at an amount equal to the contract value.

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Article 17 Programme of implementation of tasks

- 17.1 The Contractor shall provide the Supervisor with a weekly work schedule of implementation of the tasks per each city within 10 calendar days from the date of signing the contract. This programme shall include at least the order and time limits in which the Contractor proposes to carry out the works, and shall be based on the tranches foreseen in art. 49.1 of the special conditions.
- 17.2 The Supervisor shall return this document to the Contractor with any relevant remarks within 5 days of receipt, save where the Supervisor, within those 5 days, notifies the Contractor of its wish for a meeting in order to discuss the documents submitted.
- 17.3 The contractor shall submit weekly reports on the bases of the Template provided by the Contracting Authority.

Article 21 Exceptional risks

- 21.4 Only those provided in safety rules for corresponding types of works RM (weather conditions and other force majeure circumstances).

Article 34 Period of implementation of tasks

- 34.1 The period of implementation of tasks is from the date of signing this contract to **25 September, 2018.**

Article 36 Delays in the implementation of tasks

- 36.1 The rate of liquidated damages for delays in the completion of works shall be 0.1% of the contract price for every day or part thereof which elapses between the end of the period of implementation of tasks and the actual date of completion, up to a maximum amount of 10% of the contract price or, if the contract is subdivided into phases, 10% of the price of the phase concerned. The Contracting Authority can decide not to ask for these penalties in case of force majeure.

Article 39 Work register

- 39.2 Work register shall be run conform norms and rules acting on the territory of RM.

List of works to be done within the framework of this Contract:

Modernization of the street lighting in Cantemir shall include at least the following works required for the normal operation of the street lighting system:

- Supply and replace existing luminaries (mainly sodium-vapor/mercury-vapor bulbs, etc.) with new LED luminaries according to the requirements specified below: Cantemir: 300 lighting points.
- Supply, install and put into operation required control & management and monitoring systems;
- Replace brackets, cables etc. necessary for the normal operation of the street lighting system.
- Execute all necessary demolition/dismantling and installation works under the contract conditions.
- Supply, install electronic electricity meters for commercial metering certified in Republic of Moldova and approved by the electricity supplier for billing purposes, controllers with communication equipment GSM/GPRS/RF/BT or other equivalent communicator and other necessary equipment to control lighting intensity of dimming of LED fixtures;
- Supply, install, test and put into operation of all equipment required by the present technical specifications;
- Ensure the availability of all equipment, machines, tools etc for works required by the present contract.
- Supply, handle, deposit and store necessary materials and equipment;

- Supply and install 1 computer with parameters suitable for normal monitoring, control and operation of the lighting systems. The computer shall be equipped with all required accessories including the following: mouse, keyboard, flat monitor (IPS or equivalent matrix) with min 24 inches diagonal size, UPS.
- Install necessary software for visualization of all necessary measures and transmitted parameters to the centralized monitoring point whereas the licensed installation CD (or another) shall be transmitted to the Beneficiary. The operational, control, monitoring and visualization systems shall be fully autonomous, installed on the Beneficiary's computers/servers supplied in the framework of this contract and no additional payment shall be paid by the Beneficiary during the whole lifecycle of the installed equipment (luminaires, operational, control, monitoring and visualization systems, etc)
- Organize local hands-on training for lighting operation personnel.
- Other contract associated works.

Since the Contractor is deemed to have determined its prices on the basis of its own calculations, operations and estimates, it shall carry out without additional charge any work that is the subject of any item whatsoever in its tender for which it neither indicates a unit price nor a lump sum.

39.2 Any technical statements shall be made according to the existing Norms and Rules of Republic of Moldova

Article 40 Origin and quality of works and materials

40.1 All goods purchased under the Contract must originate in any eligible source country as defined in the ENPI programme. However, the goods to be purchased may originate from any country, whenever the total price of the estimated quantity of those goods, as reflected in a separate item of the Breakdown of the Lump-sum Price (Volume 4.2.3) is below 100.000 €. A category of similar goods to be purchased shall not be broken down over more than 1 item of the Breakdown of the Lump-sum Price (Volume 4.2.3)]

For these purposes, 'origin' means the place where the goods are mined, grown, produced or manufactured and/or from which services are provided. The origin of the goods must be determined according to the EU Customs Code or the applicable international agreement.

When importing goods, any change in the specified origin must be pointed out to the project Supervisor and approved by him.

40.2 The works and the objects, appliances, equipment or materials used in their construction must comply with:

- the following specifications: ANNEX II + III: TECHNICAL SPECIFICATIONS + TECHNICAL OFFER (*) the requirements of ANNEX II + III: TECHNICAL SPECIFICATIONS + TECHNICAL OFFER
- Technical design.

Article 43 Ownership of plant and materials

43.2 The equipment, temporary structures, plant and materials on the site shall be under the responsibility of the Contractor for the duration of the execution of the works.

Article 44: General principles for payments

44.1 Payments shall be made in euro or in national currency on the exchange rate of the National Bank of Moldova on the day of payment.

Article 46 Pre-financing

46.1 The only prefinancing granted to the Contractor, is the lump sum advance referred to in Article 46.1(a).

Article 48 Price revision

48.1 Prices are fixed and shall not be revised.

Article 49 Measurement

49.1 This is a lump-sum contract.

Under the conditions imposed by the Special Conditions and General Conditions, the amounts due shall be calculated through the following tranches, expressed as percentage of the contract price:

For Cantemir:

	Percentage	Nature	Timing
1.	10%	Lump-sum advance of Article 46.1(a),	After conclusion of the contract (upon request and conditions p. 46 of General Conditions)
2.	80 %	Interim payment of Article 50	80% payment of the contract price, after completion of all works and Operational Acceptance issued and approvals received from the accredited laboratories.
4.	10%	Interim payment of Article 50	10% final payment of the contract price after remedying of any defects therein, September 27, 2018

Article 50 Interim payments

50.7 The interim payments will be paid as determined in Article 49.1 of these Special Conditions.

Article 61 Defects liability

61.1 The defects liability period is defined as the period commencing on the date of provisional acceptance, during which the Contractor is required to make good any effect in, or damage to, any part of the work which may appear or occur during this period as notify by the Supervisor or the Contracting Authority. The rights and obligations of the parties with regard to this defects liability period are laid down in Article 61 of the General Conditions.

Article 68 Dispute settlement

68.4 Any dispute arising out of or relating to this Contract which cannot be settled otherwise shall be referred to the exclusive jurisdiction of the Republic of Moldova in accordance with the national legislation of the state of the Contracting Authority.

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VOLUME 4.2

FINANCIAL OFFER LUMP SUM CONTRACTS

This form to be inserted for your Financial Offer using the text below including the tables below

Introduction

1. The Breakdown of the Lump-sum Price (Volume 4.2.3) is the itemised list of prices showing the build-up of the price in a lump-sum contract. This Breakdown of the Lump-sum Price does not derogate in any way to the clause stating that, in a lump-sum contract, the total contract price remains fixed irrespective of the quantity of work actually carried out.

The amounts due will be calculated:

The breakdown must coincide with the payment-definition chosen in article 49 of the Special Conditions:

For example: through the measurement of the percentage of works carried out in relation to the firm quantities of each item of the Breakdown of the Lump-sum Price and by applying that percentage to the lump-sum price of the related item.

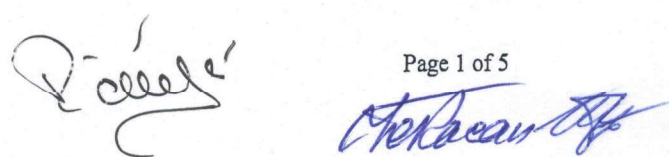
For example: by the tranches specified in article 49(1)(a) of the Special Conditions.

2. The item description given in the Breakdown of the Lump-sum Price in no way limits the Contractor's obligations under the Contract to provide all the works described elsewhere.
3. The prices of the Breakdown of the Lump-sum Price include all incidental and contingent expenses and all risks necessary to construct, complete and maintain all works in accordance with the Contract. Unless separate items are provided in the Breakdown of the Lump-sum Price, prices include all costs involved in the various items of the Breakdown.
4. The prices do not include taxes and fiscal duties, as exoneration is explicitly given for the Contract. Non-exonerated taxes and fiscal duties are, apart from those stated separately in the financial offer templates, covered in the Lump-sum Price of the Contract.

List of works to be done within the framework of this Contract:

Modernization of the street lighting in Cantemir shall include at least the following services required for the normal operation of the street lighting system:

- Supply and replace existing luminaries (mainly sodium-vapor/mercury-vapor bulbs, etc.) with new LED luminaries according to the requirements specified below: Cantemir: 300 lighting points.
- Supply, install and put into operation required control & management and monitoring systems;
- Replace brackets, cables etc. necessary for the normal operation of the street lighting system.
- Execute all necessary demolition/dismantling and installation works under the contract conditions.
- Supply, install electronic electricity meters for commercial metering certified in Republic of Moldova and approved by the electricity supplier for billing purposes, controllers with communication equipment GSM/GPRS/RF/BT or other equivalent communicator and other necessary equipment to control lighting intensity of dimming of LED fixtures;



- Supply, install, test and put into operation of all equipment required by the present technical specifications;
- Ensure the availability of all equipment, machines, tools etc for works required by the present contract.
- Supply, handle, deposit and store necessary materials and equipment;
- Supply and install 1 (one) computer with parameters suitable for normal monitoring, control and operation of the lighting systems. Both computers shall be equipped with all required accessories including the following: mouse, keyboard, flat monitor (IPS or equivalent matrix) with min 24 inches diagonal size, UPS.
- Install necessary software for visualization of all necessary measures and transmitted parameters to the centralized monitoring point whereas the licensed installation CD (or another) shall be transmitted to the Beneficiary. The operational, control, monitoring and visualization systems shall be fully autonomous, installed on the Beneficiaries computers/servers supplied in the framework of this contract and no additional payment shall be paid by the Beneficiary during the whole lifecycle of the installed equipment(luminaires, operational, control, monitoring and visualization systems, etc)
- Organize local hands-on training for lighting operation personnel.
- Other contract associated works.

Contractor shall estimate all the works associated with the contract before submitting its offer as for its correctness and sufficiency and take into account all that is required for the full and proper implementation of the tasks and include in its rates and prices all costs related to the supplies, in particular:

- a) the costs of transport;
- b) the costs of handling, packing, loading, unloading, transit, delivery, unpacking, checking, insurance and other administrative costs in connection with the supplies. The packaging shall be the property of the Contracting Authority unless otherwise provided in the Special Conditions;
- c) the cost of documents relating to the supplies where such documents are required by the Contracting Authority;
- d) execution and supervision of on-site assembly and/or commissioning of the delivered supplies;
- e) furnishing of tools required for assembly and/or maintenance of the delivered supplies;
- f) furnishing of detailed operation and maintenance manuals for each unit of the delivered supplies, as specified in the Contract;
- g) supervision or maintenance and/or repair of the supplies, for a period of time stated in the Contract, with the stipulation that this service shall not release the Contractor from any warranty obligations under the Contract;
- h) training of the Contracting Authority's personnel, at the Contractor's factory and/or elsewhere as specified in the contract.

Since the Contractor is deemed to have determined its prices on the basis of its own calculations, operations and estimates, it shall carry out without additional charge any work that is the subject of any item whatsoever in its tender for which it neither indicates a unit price nor a lump sum.

It is Tenderers task to determine and include all necessary equipment, works, etc. required for the normal operation of the street lighting systems of Cantemir.

Important note:

1. After luminaries are supplied, some of them will be randomly selected to be submitted to laboratories accredited by EU as to verify their correspondence with the technical parameters required by the present technical specifications.

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2. The European Commission and the Republic of Moldova have agreed to allow the Grant Contract 2014/354-589 full exemption of the following taxes: zero VAT according to the Government Decision No. 130, 246 of 8 April 2010 "regarding how to apply zero VAT on supplies of goods and services carried out on the territory of the country and granting of tax and customs facilities for technical assistance projects and ongoing investment, which fall under international treaties to which Moldova is a party" (Official Gazette of the Republic of Moldova, 2010, 52-53, art. 308), Annex 1, Project Ref #: 87211926805. (<http://lex.justice.md/ru/357754/>) (<http://amp.gov.md/aim/exportActToPDF.do?activityid=7053>)

VOLUME 4.2.3 — BREAKDOWN OF THE LUMP-SUM PRICE

Item	Description	Unit	Lump-sum price [EUR] <i>Total Lump-sum prices from the tables 4.2.3.1 and 4.2.3.2</i>
1	Cantemir town	1 set	116 890,34
Total lump-sum price Cantemir			116 890,34

4.2.3.1 Breakdown Of The Lump-Sum Price for Cantemir town

Item	Description	Unit	Unit price, [EUR]	Firm Quantities	Lump-sum price [EUR]
I	Luminaries systems			300	
	LED Luminaires 20W	pieces	178,65	46	8217,90
	LED Luminaires 27W	pieces	183,65	81	14875,65
	LED Luminaires 29W	pieces	193,65	102	19752,30
	LED Luminaires 53W	pieces	219,65	71	15595,15
II	Luminaries' brackets:				
	-Bracket for vibrating poles	pieces	17,50	300	5250,00
III	Linear part fittings				
	A self-supporting cable with aluminum phase conducting conductors, with UV light-stabilized cross-linked polyethylene insulation 1x35mm ² +1x54,6mm ² or equivalent	km	1 253,09	9,7	12155,00

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A self-supporting cable with aluminum phase conducting conductors, with UV light-stabilized cross-linked polyethylene insulation 3x35mm ² +1x54,6mm ² or equivalent	km	1 850,00	0,89	1646,50
Insulated power cable with PVC jacket which does not propagate the flame, with the section 3x4 mm ²	m	1,15	1 153	1325,95
Power cable with polyvinyl chloride insulation, reinforced, protected in polyvinyl chloride tube, 2x25 mm ²	m	0,60	350	210,00
Box/Cabinet for electric meter type for single-phase meter with necessary support IP65 class	pieces	50,00	1	50,00
Box/Cabinet for electric meter type for three-phase meter with necessary support IP65 class	pieces	90,00	4	360,00
Box/Cabinet for lighting control with necessary support IP65 class	pieces	32,50	5	162,50
Electronic Electric meter for commercial metering single-phase 220V I=5-40A certified and approved in Republic of Moldova and approved by the electricity supplier for billing purposes	pieces	25,00	1	25,00
Electronic Electric meter for commercial metering three-phase 380V I=5-100A certified and approved in Republic of Moldova and approved by the electricity supplier for billing purposes	pieces	90,00	4	360,00
Contactator 1P , In=63A,	pieces	8,50	1	8,50
Contactator 3P , In=63A,	pieces	30,00	4	120,00
Circuit breakers 1P,"B", In=25A	pieces	2,40	2	4,80
Circuit breakers 1P,"C", In=25A	pieces	2,40	1	2,40
Circuit breakers 1P,"C", In=32A	pieces	3,60	1	3,60
Circuit breakers 3P,"B", In=25A	pieces	6,00	8	48,00
Circuit breakers 3P,"C", In=25A	pieces	6,00	4	24,00
Circuit breakers 3P,"C", In=32A	pieces	7,30	3	21,90
Overvoltage limiter U _{max.} =280 V, I _{desc.} =10 kA.	pieces	20,00	14	280,00

Receipts

Polacau

	Fuse In=2A, 220V, IP54	pieces	1,25	236	295,00
	Load break switch 1P, In=63A	pieces	5,00	1	5,00
	Load break switch 3P, In=63A	pieces	7,00	8	56,00
	Round steel Ø10mm (for earthing)	m	0,45	938	422,10
	Round steel Ø16mm (for earthing)	m	1,20	540	648,00
	Round steel Ø20mm (for earthing)	m	1,35	33	44,55
IV	Control Operational and monitoring systems with GSM	set	658,35	5	3291,75
V	Licensed Software for Control Operational and monitoring systems with GSM	set	2 994,50	1	2994,50
VI	Personal computer, equipped with the all required accessories at least the following: 1 mouse, 1 keyboard, 1 flat monitors (IPS or equivalent matrix) with min 24 inches diagonal size, 1 UPS.	set	833,50	1	833,50
VII	Local hands-on training for lighting operation personnel	set	570,00	1	570,00
VIII	Internet data for 5 Segment controler 5 years	set	720,00	1	720,00
IX	<i>Furnitura pentru piloni</i>	set	6,00	324	1944,00
Total materials					92 323,55
Electrical Installation work, public lighting					24 566,79

Total lump-sum price for Cantemir					116 890,34
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Receipts

Topacaru